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Radar Love

University of Dayton, Ohio (url: http://www.udayton.edu/index.php)

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06.06.2014 | Faculty, Engineering, Students, Research

The University of Dayton School of Engineering will publicly unveil its radar laboratory in the department of electrical and computer engineering established with $1.5 million in funding from the Ohio Third Frontier Ohio Research Scholars Program.

The University will dedicate the new laboratory, which is located in Kettering Laboratories room 251, at **3 p.m. Tuesday, June 10.** Researchers also will offer demonstrations of the lab's capabilities.

In the Mumma Radar Laboratory, researchers will work on using radar to improve sensing for medical imaging and manufacturing, including the detection of defects in 3-D printed objects, environmental uses and in autonomous applications. In autonomous applications, such as unmanned aerial vehicles, sensors measure the environment around them and then perform actions based on those measurements, without the need for human intervention or operation.

The lab's radars are perhaps the most precise in the world, accurate to one-tenth of a micron or about 400 times smaller than a human hair, according to Guru Subramanyam, chair of the University of Dayton department of electrical and computer engineering.

Michael Wicks, Ohio Research Scholars Endowed Chair in Sensors Exploitation and Fusion and a professor of electrical and computer engineering, will serve as lab director. Lorenzo Lo Monte, senior research radar engineer, and Donald Kessler, senior scientist, both with the University of Dayton Research Institute's sensor systems division, will assist Wicks. Lo Monte and Kessler also are professors in the University of Dayton department of electrical and computer engineering.

A team of postdoctoral, graduate and undergraduate researchers also will work in the Mumma Radar Laboratory.

The University of Dayton leads all Catholic universities in sponsored engineering research and ranks 30th among all colleges and universities in the U.S.

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